SILENCIUM – Anti-Snoring Pillow

Data Tool Software User Manual

Multi-Language Version
(automatic language detection)

Supporting Languages:
- English
- German
- French
- Korean
- simplified Chinese
- traditional Chinese

Software Version: v1.8 (standard PC and pocket PC)
Date: March 27th, 2013

SILENCIUM – Data tool software installation

Laptop minimum System Requirements:

CPU	: Intel
RAM	: 2GB
Hard Disk	: 1GB free space
Display Resolution	: 1024x768, 1280x768, 1360x768, 1366x768, 1280x800, 1152x864, 1440x900, 1600x900, 1024x600
Operating System	: Windows 7, Windows XP
USB port	: Must have

Note:

The laptop must be configured to have system running when cover is closed over night!

(Windows OS sleeping mode must be disabled)

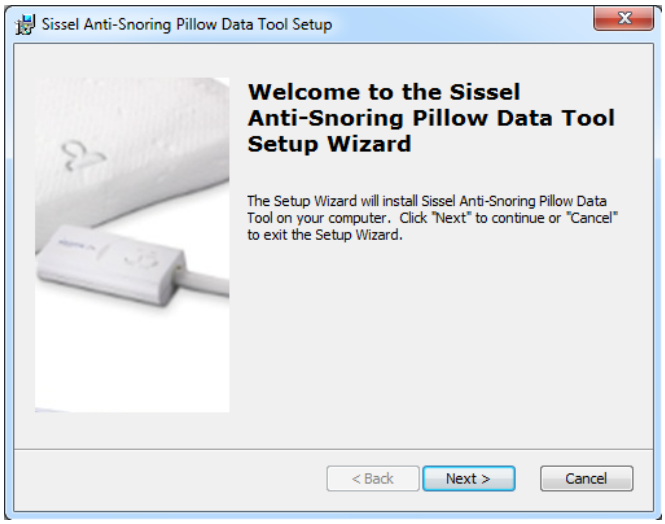
Major steps:

- Connect Pillow to laptop via USB cable and turn on the pillow
- Please de-install previous version from your PC before installing updated version
- Start installation Sissel anti-snoring pillow data tool program:

  `Silencium Data Tool Inst_v1_8.exe`

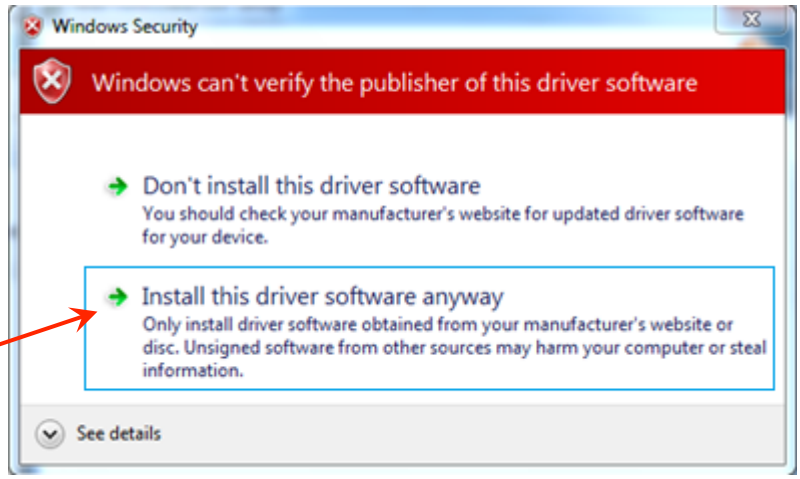
SILENCIUM – Data tool software installation

1. Start installation program to install Sissel anti-snoring pillow data tool.


Sissel Anti-Snoring Pillow Data Tool Setup
Welcome to the Sissel Anti-Snoring Pillow Data Tool Setup Wizard
The Setup Wizard will install Sissel Anti-Snoring Pillow Data Tool on your computer. Click "Next" to continue or "Cancel" to exit the Setup Wizard.
< Back
Next >
Cancel

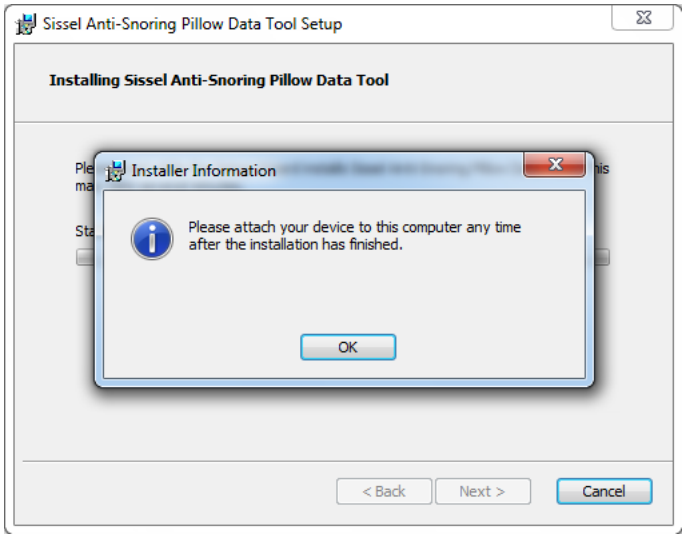
Remark:
Remove previous version before installing new version!

2. Apart from data tool program installation, the driver will also be installed. The following screen will be indicated in Window 7 platform, please select to install the driver.

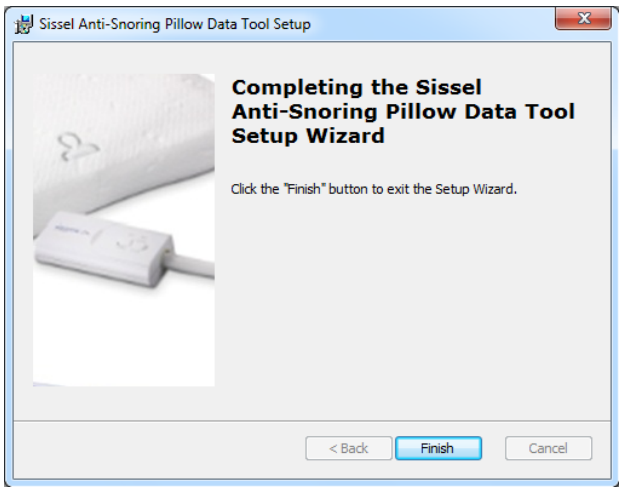

Windows Security
Windows can't verify the publisher of this driver software
Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.
Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
See details

Select ***'Install this driver software anyway'***

3. If installed driver reminds pillow's USB connection to laptop after data tool installation, click "OK".

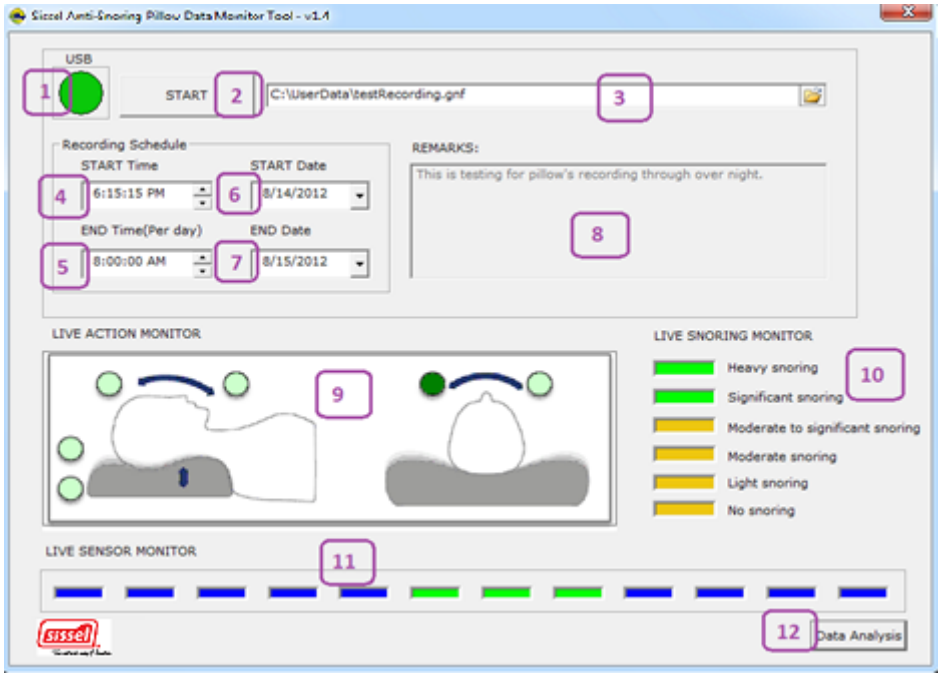

Sissel Anti-Snoring Pillow Data Tool Setup
Installing Sissel Anti-Snoring Pillow Data Tool
Installer Information
Please attach your device to this computer any time after the installation has finished.
OK
< Back
Next >
Cancel

4. Click "Finish" to accomplish Sissel anti-snoring pillow data tool installation.


Sissel Anti-Snoring Pillow Data Tool Setup
Completing the Sissel Anti-Snoring Pillow Data Tool Setup Wizard
Click the "Finish" button to exit the Setup Wizard.
< Back
Finish
Cancel

5. After installation, the program shortcut is created in desktop.

User Interface Overview:



1. USB State Indication Ball
2. START/STOP button
3. Data file name INPUT/SELECTION
4. Recording Start Time(Every day)
5. Recording End Time(Every day)
6. Schedule trigger Start Date
7. Schedule trigger End Date
8. Remarks corresponding to Recording file
9. Live Action Animation.
10. Live Snoring Level
11. Live Head Position visual display
12. Go to Data analysis Window page

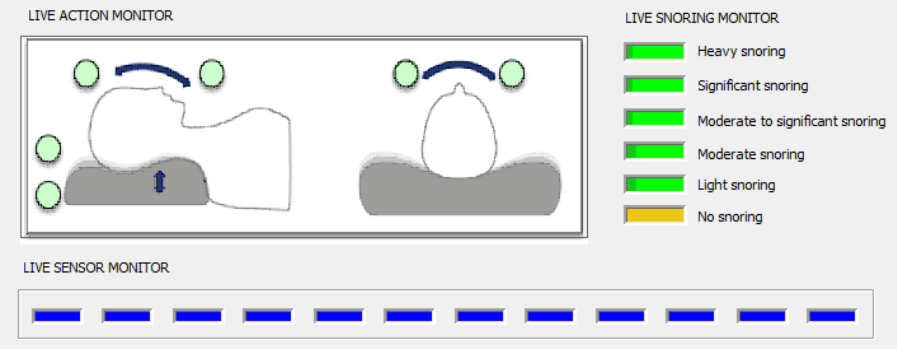
Operation:

1. Power on Laptop, use USB cable and connect Pillow to laptop, power on Pillow:
2. 'Click' the icon to launch Sissel anti-snoring pillow data tool program:

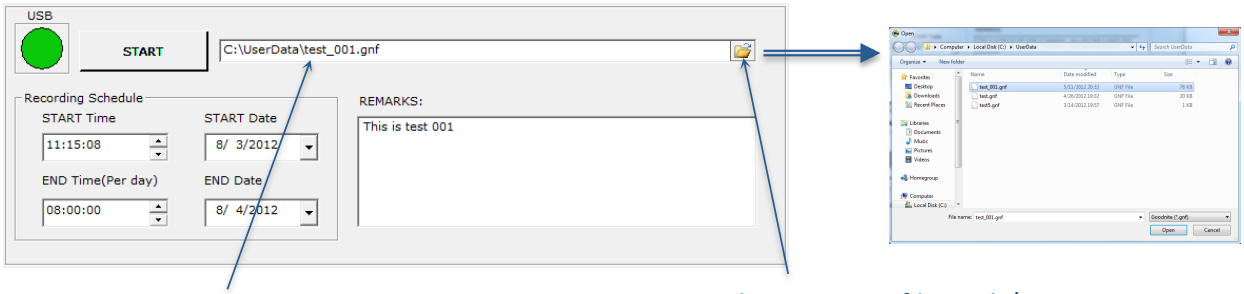
Notes:

- If only grey ball displays, it indicates that USB linking between Pillow and laptop is not established. (Please see 'Troubleshooting' in page 14 "problem ID #01").

3. In case that USB connection to working pillow is established, the data including snoring level, head position, pillow action can be monitored in real time.



4. Input new file name or select existing file name for data recording .

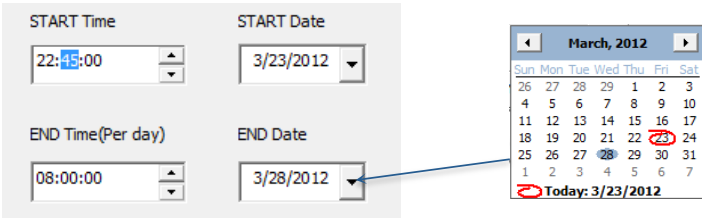


Input new file path/name

Select existing file path/name

- Suggested data file naming format is “xxx.gnf”.
- If to input new file name, “.gnf” will be automatically appended.
- If to select existing file, file name “*.gnf” can be filtered in file browser.

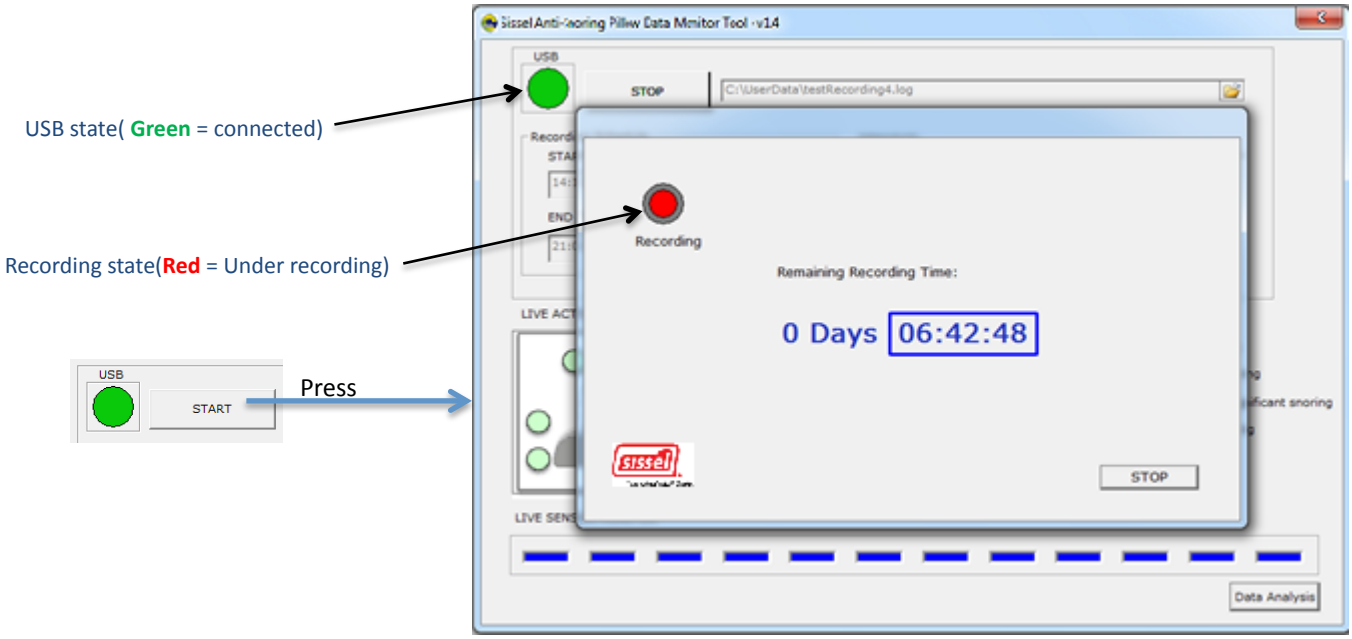
5. Schedule data recording.



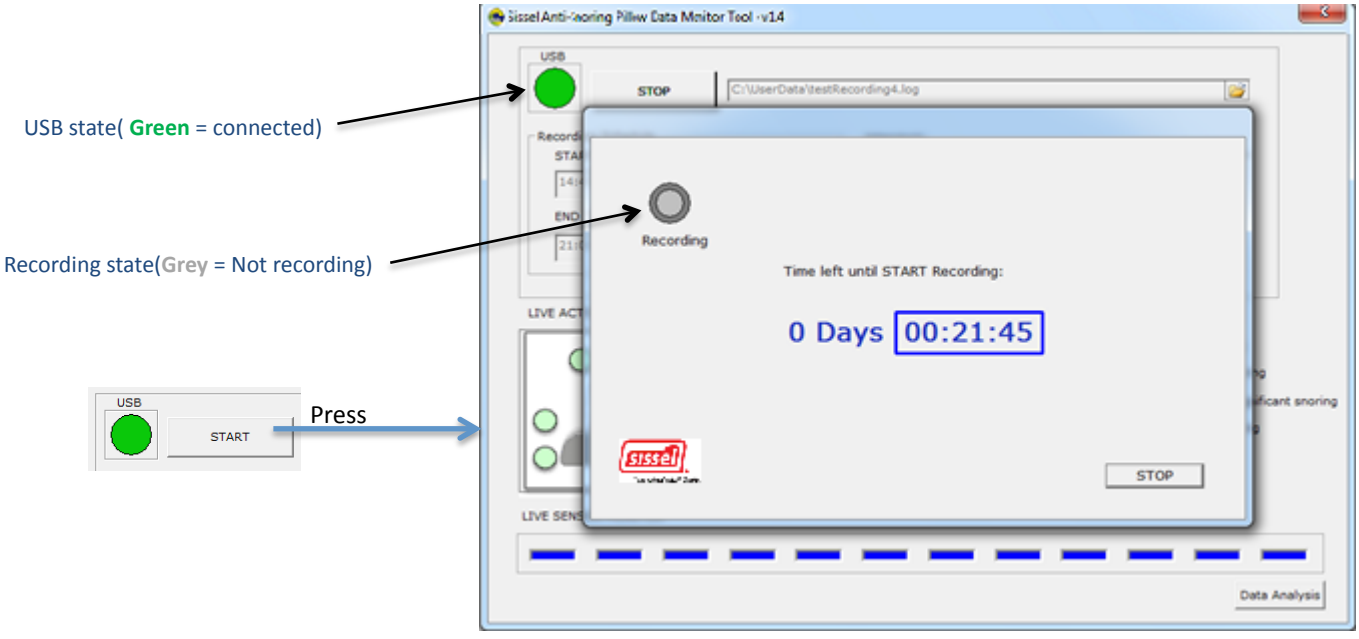
- Start Time/End Time: Specifies data recording’s start time/End time every night. For example: if “22:00/08:00”, means that recording starts at 22:00 and ends at 8:00 next day. The default START time is program launch time, and the default END time is 08:00.
- Start Date/End Date: Specifies the date period(from start date to end date) that recording will be triggered. The default date is current date.

6. Press button “START” to start recording.

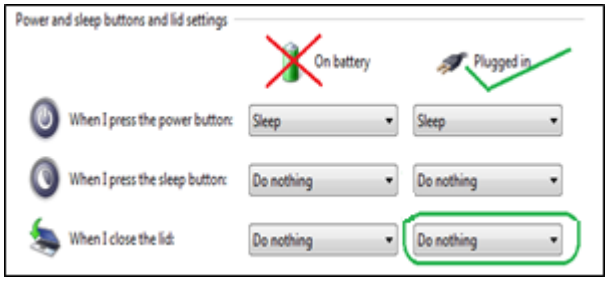
- If START time already arrived, RECORDING is started:

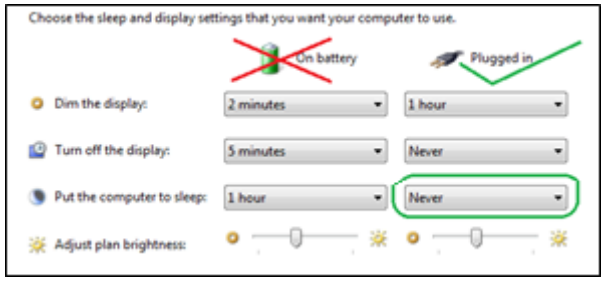


- If START time does not arrive, recording is SCHEDULED:



7. For over-night data recording, please make sure to disable auto-'power off' and sleep mode in your laptop, also let external power supply be plugged in.

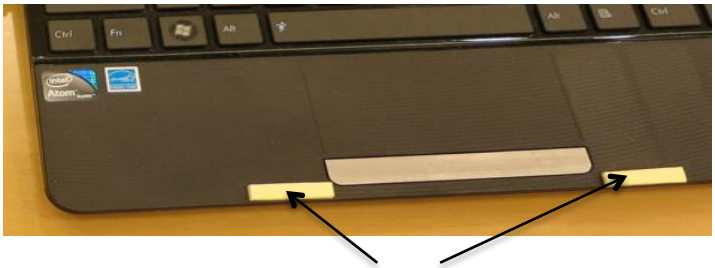




Notes:

- Please make sure laptop is OUT of network connection in order to avoid unexpected Windows's Auto-update/Restart through over night.

- You can close lid of laptop for long time running, but be careful to avoid unexpected mouse-pad touching that might interrupt recording.



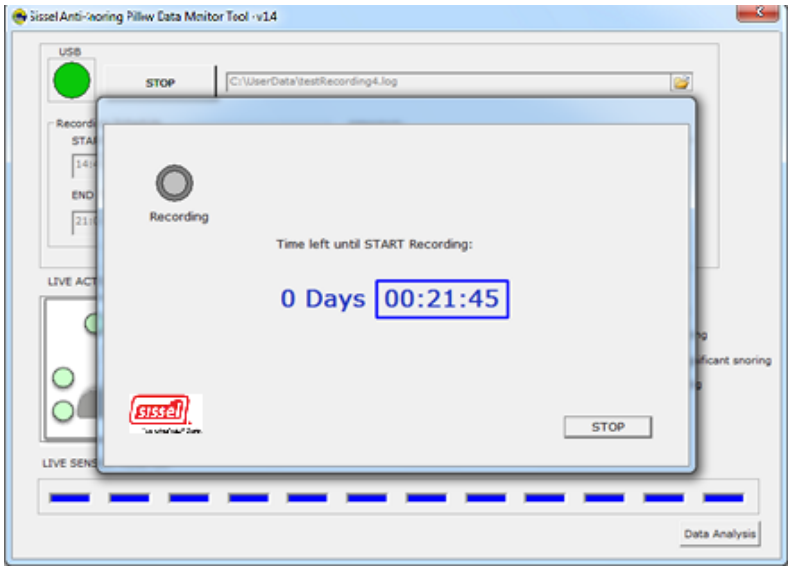
Suggest the 'Bumpers' are in place!
Laptop-case must not touch the mouse-pad!

- Please do not pull USB cable when laptop is under data recording.

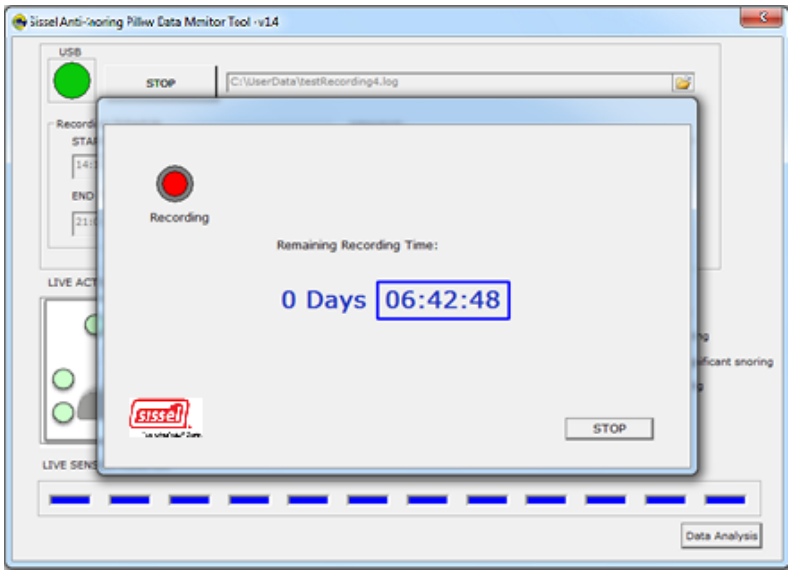
If data recording is scheduled for several nights, please do every day's quick checking before going to bed (Costs about 30 seconds):

Check:
The USB indication ball must be GREEN, and POP-UP window must be one of the following states :

- Scheduled state:

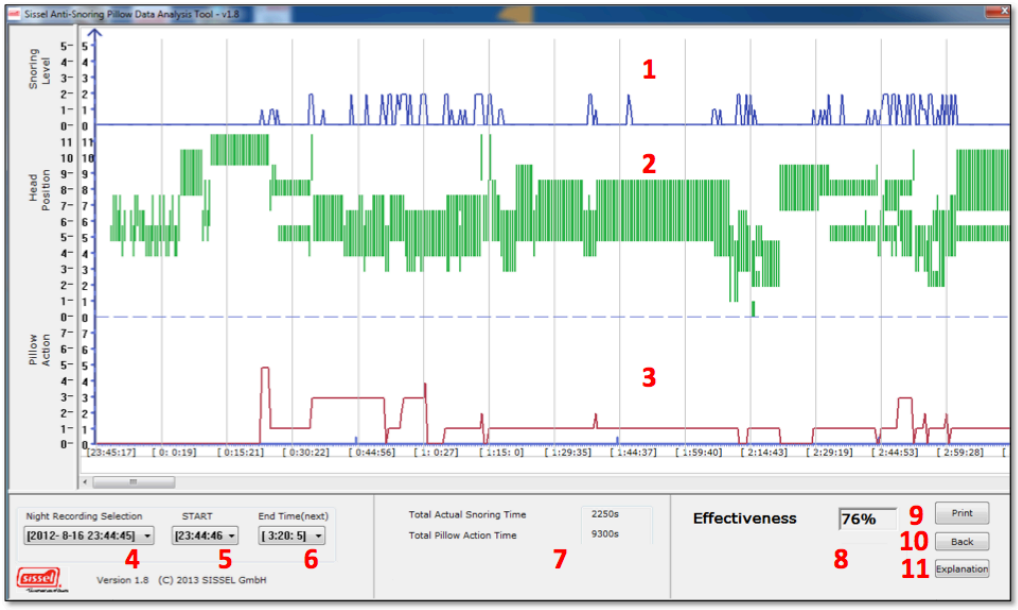


- Or Recording state:



If not OK, please see 'Troubleshooting' in page 14 "problem ID #02".

User Interface Overview(Data Analysis):

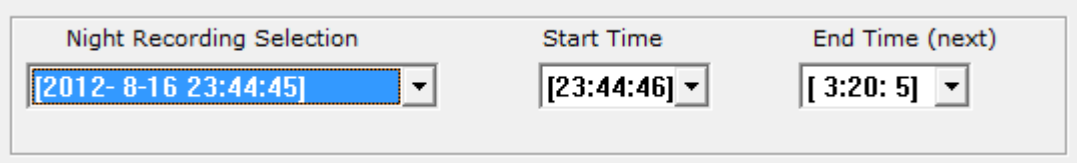


1. Snoring Level
2. Head position
3. Pillow Active
4. Date selection
5. Start Time Select
6. End Time Select
7. Snoring Time and Pillow Active Time
8. Effectiveness
9. PRINT
10. BACK to main page
11. Explanation

Operation:

1. From Data monitoring page, click button “Data Analysis”, the data analysis page displays.

2. Select record, start time/end time, the corresponding night data record between start time and end time is displayed.

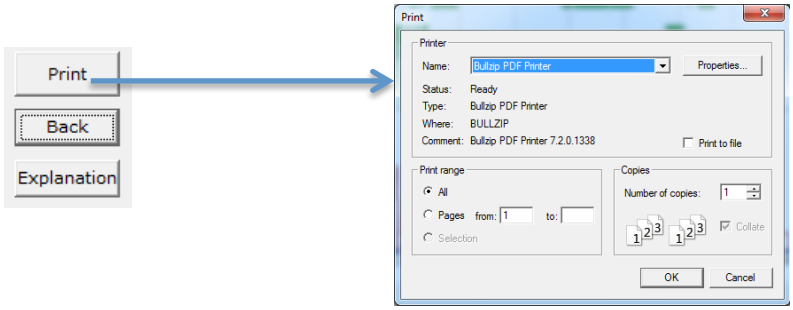


Notes:

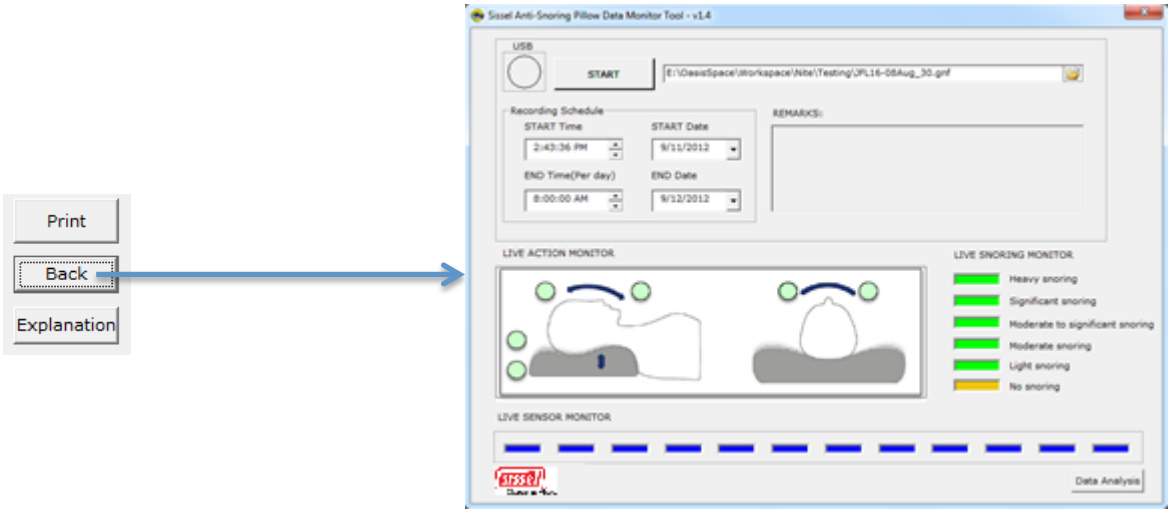
- In default, the most latest data record will be selected as current night record.
- For any selected data record, in default, display time area [Start time, End time] will be sleeping period when pillow positions are pressed.

3. For selected “record”, “start time”, ”end time”, the corresponding pillow effectiveness-rate is calculated.

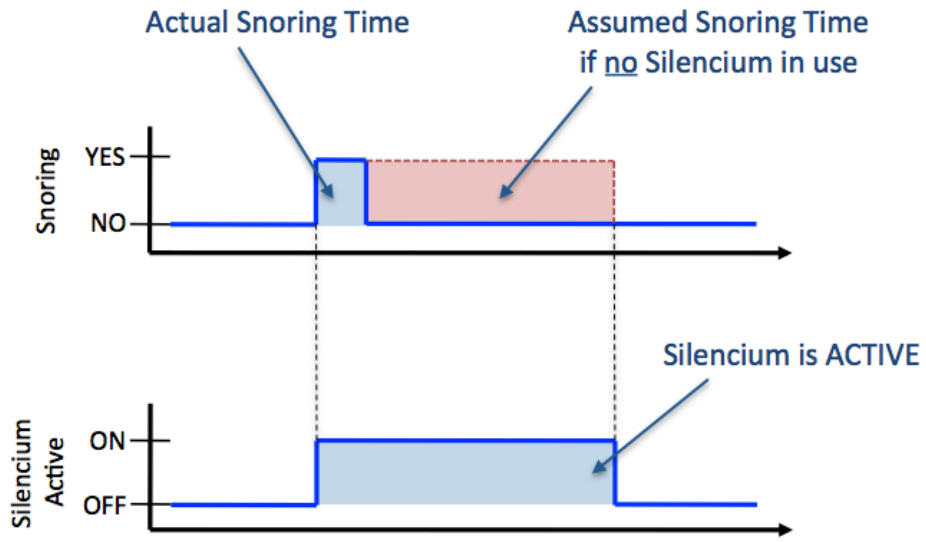
4. Press button “Print” to print out night data page.



5. Press button “Back” to go back to data monitoring page.



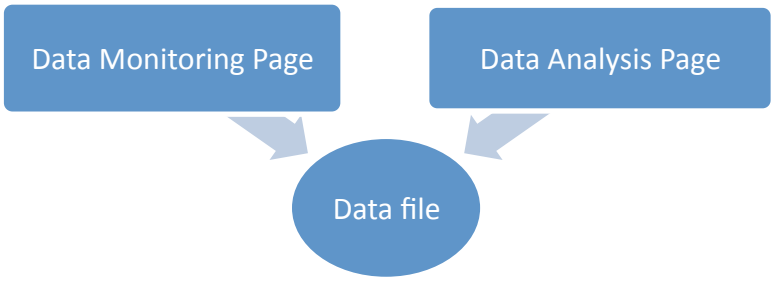
6. Press button “Explanation”, displays **Effectiveness** explanation:



The ***Effectiveness*** is the ratio between *‘Actual Snoring Time’* and *‘Pillow Active time’* in percent.
Assumption: Snoring would have continued without Silencium

REMARK: snoring is generally subject of individual health and body condition. Alcohol consumption, eating habits, stress, medication and physical/mental condition on the day of testing may have additional influence the snoring behavior, intensity and duration.

SILENCIUM – Testing Data Generation and Management

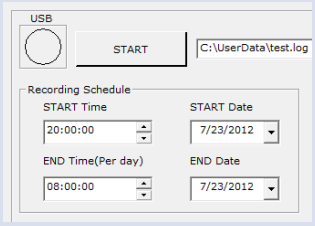
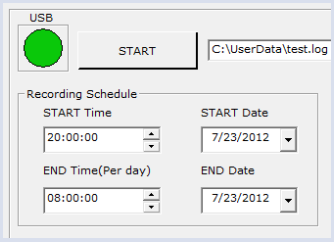
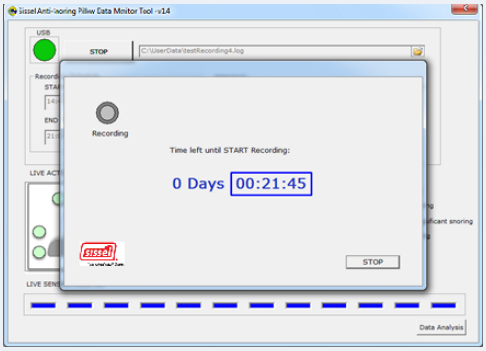


1. "Data Monitoring" page schedules time to generate records into data file through over the night.
2. "Data Analysis" page loads data file for visual data information display and snoring data calculation.

Remarks:

- Data file selection is done in "Data monitoring" page, and the same file is processed in "Data Analysis" page.
- If the input string of new file is incorrect in "Data monitoring" page, during data recording, the data file name will be automatically changed to "c:\userdata\test.gnf"
- The operation log on Sissel anti-snoring pillow data tool will be recorded into tool's log file "c:\userdata\ToolOperation.log".

SILENCIUM – Troubleshooting

ID	Problem Description	Solution
#01	Even USB is plugged, indication ball displays grey, indicating that USB connection is not established . 	1. Close data tool program, power off pillow. 2. Make sure USB hardware is well connected between laptop and Pillow. 3. Power on pillow. 4. Launch data tool program again . The following is correct state when USB is plugged: 
#02	During daily recording, find that indication ball be grey and/or error message displayed. 	1. See “problem ID #01” to firstly make sure USB connection is established. 2. Fill “Recording Schedule”, Click “START” button to start recording. The correct state must be one of the following states: > Recording Scheduled  > Recording